

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:	Robert K. Prud'homme,	)	
	Et al.	)	
		)	Art Unit: Unknown
Serial No.:	Unknown	)	
		)	
Filed:	Concurrently Herewith	)	Examiner: Unknown
		)	
For:	Polymersome Compositions	)	
	And Associated Methods	)	
	Of Use	)	

INFORMATION DISCLOSURE STATEMENT

COMMISSIONER FOR PATENTS  
Alexandria, VA 22313-1450

SIR:

The following documents are known to Applicants or Applicants' attorneys and are submitted for the Examiner to consider in the above-captioned application.

U. S. PATENTS

U.S. Patent Number 4,745,160 issued 05/17/88 to Jeffrey R. Churchill, et al;  
U.S. Patent Number 5,373,901 issued 12/20/94 to Lewis R. Norman, et al;  
U.S. Patent Number 5,429,826 issued 07/04/95 to Mridula Nair, et al;  
U.S. Patent Number 5,470,510 issued 11/28/95 to Alan D. Willey, et al;  
U.S. Patent Number 5,525,702 issued 06/11/96 to Vaughn M. Nace;  
U.S. Patent Number 6,166,151 issued 12/26/00 to Rajan Hariharan, et al.  
U.S. Patent Number 6,322,722 issued 11/27/01 to Debkumar Bjattacjarkee, et al;  
U.S. Patent Number 6,414,170 issued 07/02/02 to Dong-II Kim, et al;

U.S. Patent Number 6,444,316 issued 09/03/02 to Baireddy R. Reddy;  
U.S. Patent Number 6,541,033 issued 04/01/03 to Subodh Shah;  
U.S. Patent Number 6,451,346 issued 09/17/02 to Subodh Shah, et al;  
U.S. Patent Number 6,469,132 issued 10/22/02 to Adi Eisenberg, et al;  
U.S. Patent Number 6,527,051 issued 03/04/03 to Baireddy R. Reddy, et al;  
U.S. Patent Number 6,554,071 issued 04/29/03 to Baireddy R. Reddy, et al;  
U.S. Patent Number 6,632,457 issued 10/14/03 to Amarpreett S. Sawhney;  
U.S. Patent Number 2002/0161134 A1 issued 10/31/02 to Young Ha Kim, et al; and  
U.S. Patent Number 2003/0099709 A1 issued 05/29/03 to Subodh Shah, et al;

#### **FOREIGN PATENTS**

PCT Application Number WO 03/033592 A1 published 04/24/03;  
PCT Application Number WO 03/033593 A1 published 04/24/03;  
PCT Application Number WO 01/41735 A2 published 06/14/01; and  
PCT Application Number WO 02/070861 A1 published 09/12/02.

#### **OTHER PRIOR ART**

“POLYMER VESICLES;” DISCHER, D.E., EISENBERG, A.E.; SCIENCE, VOLUME 297; 967 – 973;

“HYPERVISCOUS DIBLOCK COPOLYMER VESICLES;” DIMOVA, R.; SIEFERT, U.; POULIGNY, B.; FORSTER, S.; DOBEREINER, H.-G.; THE EUROPEAN PHYSICAL JOURNAL E, VOLUME 7, 241-250;

“BIODEGRADABLE POLYMERSOMES;” MENG, F.; HIEMSTRA, C.; ENGBERS, G.; FEIJEN, J.; MACROMOLECULES; VOLUME 36; 3004-3006; AND

“MICELLIZATION AND GELATION OF AQUEOUS SOLUTIONS OF STAR-SHAPED PLLA-PEO BLOCK COPOLYMERS;” PARK, S.Y.; HAN, B.R.; NA, K.M.; HAN, D.K.; KIM, S.C.; MACROMOLECULES; VOLUME 36, 4115-4124.

Copies of the aforementioned references and Form PTO-1449 are submitted herewith.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Robert A. Kent". The signature is fluid and cursive, with a large initial "R" and "K".

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PTO-1449  <b>Information Disclosure Citation in an Application</b>	Application No. <i>Unassigned</i>	Applicant(s): <b>PRUD'HOMME, ET AL.</b>	
	Docket Number <b>HES 2004-IP-013477U1</b>	Group Art Unit <i>Unassigned</i>	Filing Date

## U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	1	4,745,160	05/17/88	CHURCHILL, ET AL.	525	414	06/21/85
	2	5,373,901	12/20/94	NORMAN, ET AL.	166	300	07/27/93
	3	5,429,826	07/04/95	NAIR, ET AL.	424	501	10/18/93
	4	5,470,510	11/28/95	WILLEY, ET AL.	252	546	09/21/92
	5	5,525,702	06/11/96	NACE	528	354	05/18/95
	6	6,166,151	12/26/00	HARIHARAN, ET AL.	525	463	06/22/99
	7	6,322,722 B1	11/27/01	BHATTACHARJEE ET AL.	252	182.24	05/04/99
	8	6,414,170 B1	07/02/02	KIM ET AL.	554	52	07/27/99
	9	6,444,316	09/03/02	REDDY, ET AL.	428	407	05/05/00
	10	6,541,033 B1	04/01/03	SHAH, ET AL.	424	486	06/30/98
	11	6,451,346 B1	09/17/02	SHAH, ET AL.	424	486	12/23/98
	12	6,469,132 B1	10/22/02	EISENBERG, ET AL.	528	354	05/03/00
	13	6,527,051	03/04/03	REDDY, ET AL.	166	300	07/12/02
	14	6,554,071	4/29/03	REDDY, ET AL.	166	293	07/12/02
	15	6,632,457 B1	10/14/03	SAWHNEY	424	501	08/14/98
	16	2002/0161134 A1	10/31/02	KIM, ET AL.	525	408	02/07/01

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	1	WO 01/41735 A2	06/14/01	PCT	A61K	9/00		
	2	WO 02/070861 A1	09/12/02	PCT	E21B	43/26		

## NON-PATENT DOCUMENTS

		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
	1	"POLYMER VESICLES;" DISCHER, D.E., EISENBERG, A.E.; SCIENCE, VOLUME 297; 967 - 973	AUGUST 9, 2002
	2	"HYPERVISCOUS DIBLOCK COPOLYMER VESICLES;" DIMOVA, R.; SIEFERT, U.; POULIGNY, B.; FORSTER, S.; DOBEREINER, H.-G.; THE EUROPEAN PHYSICAL JOURNAL E, VOLUME 7, 241-250	2002

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

PTO-1449  <b>Information Disclosure Citation in an Application</b>	Application No. <i>Unassigned</i>	Applicant(s): <b>PRUD'HOMME, ET AL.</b>	
	Docket Number <b>HES 2004-IP-013477U1</b>	Group Art Unit <i>Unassigned</i>	Filing Date

## U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	17	2003/0099709 A1	05/29/03	SHAH, ET AL.	424	469	07/08/02

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	3	WO 03/033592 A1	04/24/03	PCT	C08L	53/00		
	4	WO 03/033593 A1	04/24/03	PCT	C08L	67/04+		

## NON-PATENT DOCUMENTS

		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
	3	"BIODEGRADABLE POLYMERSOMES;" MENG, F.; HIEMSTRA, C.; ENGBERS, G.; FEIJEN, J.; MACROMOLECULES; VOLUME 36; 3004-3006	2003
	4	"MICELLIZATION AND GELATION OF AQUEOUS SOLUTIONS OF STAR-SHAPED PLLA-PEO BLOCK COPOLYMERS;" PARK, S.Y.; HAN, B.R.; NA, K.M.; HAN, D.K.; KIM, S.C.; MACROMOLECULES; VOLUME 36, 4115-4124	2003

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